

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : UP2096  
**Product name** : U-POL MULTI SURFACE ADHESION PROMOTER  
**Date of issue** : 2/19/2026  
**Version** : 1.02

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

**Supplier's details** : U-POL CANADA LIMITED  
 P.O. BOX 48600  
 VANCOUVER, BC V7X 1T2  
 1-800-424-9300  
 technicalsupport@u-pol.com

**Product information** : (855) 6-AXALTA

**Emergency telephone number** : CHEMTREC: +44 (0) 870 8200418 (24 hrs)

### Section 2. Hazard identification

**Classification of the substance or mixture** : AEROSOLS - Category 1  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### GHS label elements

##### **Hazard pictograms**



**Signal word** : Danger

**Hazard statements** : H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 H336 - May cause drowsiness or dizziness.  
 H351 - Suspected of causing cancer.  
 H361 - Suspected of damaging fertility or the unborn child.  
 H373 - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

## Section 2. Hazard identification

<b>Prevention</b>	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe dust or mist. P264 - Wash hands thoroughly after handling. P251 - Do not pierce or burn, even after use. P280 - Wear protective gloves, protective clothing and eye or face protection.
<b>Response</b>	: P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: P405 - Store locked up. P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.

Ingredient name	Synonyms	% (w/w)	Identifiers
dimethyl ether	Methane, 1,1'-oxybis-; Methane, oxybis-; Methyl ether; methoxymethane; propane—methoxymethane (95%/5%); isobutane—methoxymethane (12%/88%); 1,1-difluoroethane—methoxymethane; 1,1-difluoroethane—methoxymethane— isobutane; isobutane—methoxymethane; dimethyl ether; RE 170; dimethyl oxide; R511a; R290—RE170 (95%/5%)	≥30 - ≤60	CAS: 115-10-6
cyclohexane	Hexanaphthene; Hexamethylene; Hexahydrobenzene; Benzene hexahydride; BENZENE,	≥15 - ≤40	CAS: 110-82-7

### Section 3. Composition/information on ingredients

	HEXAHYDRO-; Cyclohexane (I); Benzene, hexahydro- (I); Hexanaphtene		
toluene	Benzene, methyl-; Methylbenzene; Toluol; Phenyl methane; Methyl benzol; toluene, pure; toluene, crude; t-butylchloride dimethylsilane, solution in toluene; preparation consisting of: — 80 % or more but not more than 90 % by weight of (S)- hydroxy-3-phenoxy- benzeneacetonitrile (CAS RN 61826-76-4) and — 10 % or more but not more than 20 % by weight of toluene (CAS RN108-88-3); preparation containing: — 74 % or more but not more than 90 % by weight of (S)- $\alpha$ -hydroxy-3-phenoxy- benzeneacetonitrile (CAS RN 61826-76-4) and — 10 % or more but not more than 26 % by weight of toluene (CAS RN 108-88-3); methacide	$\geq 10 - \leq 30$	CAS: 108-88-3
acetone	propan-2-one; propanone; 2-Propanone; Ketone propane; Dimethyl ketone; $\beta$ -ketonepropane; acetonom; dimethylketone; methyl ketone; propanone; pyroacetic acid; pyroacetic ether; dimethylformaldehyde; methyl ketone; Acetone (I); 2-Propanone (I); DIMETHYLFORMALDEHYDE; 2-OXOPROPANE	$\geq 7 - \leq 13$	CAS: 67-64-1
XYLENE	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); Benzene, dimethyl-; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene	$\geq 1 - \leq 5$	CAS: 1330-20-7
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by	$\geq 0.1 - \leq 1$	CAS: 100-41-4

### Section 3. Composition/information on ingredients

	weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropoxyxycarbonyl orchloropropoxyxycarbonyl) benzene			
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Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

## Section 4. First-aid measures

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

## Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue

## Section 7. Handling and storage

and can be hazardous.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Storage code** : IB

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
dimethyl ether	<b>CA British Columbia Provincial (Canada, 9/2024)</b> TWA 8 hours: 1000 ppm.
cyclohexane	<b>CA Saskatchewan Provincial (Canada, 4/2021)</b> STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. <b>CA British Columbia Provincial (Canada, 9/2024)</b> TWA 8 hours: 100 ppm. <b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 100 ppm. <b>CA Quebec Provincial (Canada, 2/2024)</b> TWAEV 8 hours: 100 ppm. <b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 344 mg/m <sup>3</sup> . OEL 8 hours: 100 ppm.
toluene	<b>CA Saskatchewan Provincial (Canada, 4/2021)</b> Absorbed through skin. STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. <b>CA British Columbia Provincial (Canada, 9/2024)</b> Repr. TWA 8 hours: 20 ppm. <b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 20 ppm. <b>CA Quebec Provincial (Canada, 2/2024)</b> Ototoxicant. TWAEV 8 hours: 20 ppm. <b>CA Alberta Provincial (Canada, 3/2023)</b> Absorbed through skin. OEL 8 hours: 50 ppm. OEL 8 hours: 188 mg/m <sup>3</sup> .

**Section 8. Exposure controls/personal protection**

acetone

**CA Saskatchewan Provincial (Canada, 4/2021)**  
 STEL 15 minutes: 750 ppm.  
 TWA 8 hours: 500 ppm.  
**CA British Columbia Provincial (Canada, 9/2024)**  
 TWA 8 hours: 250 ppm.  
 STEL 15 minutes: 500 ppm.  
**CA Ontario Provincial (Canada, 6/2019)**  
 TWA 8 hours: 250 ppm.  
 STEL 15 minutes: 500 ppm.  
**CA Quebec Provincial (Canada, 2/2024)**  
 TWAEV 8 hours: 250 ppm.  
 STEV 15 minutes: 500 ppm.  
**CA Alberta Provincial (Canada, 3/2023)**  
 OEL 8 hours: 1200 mg/m<sup>3</sup>.  
 OEL 15 minutes: 1800 mg/m<sup>3</sup>.  
 OEL 8 hours: 500 ppm.  
 OEL 15 minutes: 750 ppm.

XYLENE

**CA Saskatchewan Provincial (Canada, 4/2021) [Xylene]**  
 STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 100 ppm.  
**CA British Columbia Provincial (Canada, 9/2024) [xylene (o, m & p isomers)]**  
 TWA 8 hours: 100 ppm.  
 STEL 15 minutes: 150 ppm.  
**CA Ontario Provincial (Canada, 6/2019) [Xylene (o-, m-, p-isomers)]**  
 STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 100 ppm.  
**CA Quebec Provincial (Canada, 2/2024) [Xylene]**  
 TWAEV 8 hours: 100 ppm.  
 TWAEV 8 hours: 434 mg/m<sup>3</sup>.  
 STEV 15 minutes: 150 ppm.  
 STEV 15 minutes: 651 mg/m<sup>3</sup>.  
**CA Alberta Provincial (Canada, 3/2023) [Dimethylbenzene]**  
 OEL 8 hours: 100 ppm.  
 OEL 15 minutes: 651 mg/m<sup>3</sup>.  
 OEL 15 minutes: 150 ppm.  
 OEL 8 hours: 434 mg/m<sup>3</sup>.

ethylbenzene

**CA Saskatchewan Provincial (Canada, 4/2021)**  
 STEL 15 minutes: 125 ppm.  
 TWA 8 hours: 100 ppm.  
**CA British Columbia Provincial (Canada, 9/2024) Carc 2B.**  
 TWA 8 hours: 20 ppm.  
**CA Ontario Provincial (Canada, 6/2019)**  
 TWA 8 hours: 20 ppm.  
**CA Quebec Provincial (Canada, 2/2024) C3.**  
 TWAEV 8 hours: 20 ppm.

## Section 8. Exposure controls/personal protection

### CA Alberta Provincial (Canada, 3/2023)

OEL 8 hours: 100 ppm.

OEL 8 hours: 434 mg/m<sup>3</sup>.

OEL 15 minutes: 543 mg/m<sup>3</sup>.

OEL 15 minutes: 125 ppm.

### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Clear.
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not applicable.
<b>Melting point/freezing point</b>	: Technically not possible to measure
<b>Boiling point or initial boiling point and boiling range</b>	: Not applicable.
<b>Flash point</b>	: Closed cup: -41°C (-41.8°F)
<b>Evaporation rate</b>	: Not available.
<b>Flammability</b>	: Not available.
<b>Lower and upper explosion limit/flammability limit</b>	: Lower: 1.1% Upper: 26.2%
<b>Vapor pressure</b>	: 211 kPa (1582.41 mm Hg)
<b>Relative vapor density</b>	: Not available.
<b>Relative density</b>	: Not available.
<b>Density</b>	: 0.753 g/cm <sup>3</sup>
<b>Solubility in water</b>	: Not available.
<b>Miscible with water</b>	: Yes.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: 260°C (500°F)
<b>Decomposition temperature</b>	: Not applicable.
<b>Heat of combustion</b>	: 35.75 kJ/g
<b>Viscosity</b>	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

### Particle characteristics

**Median particle size** : Not applicable.

### Aerosol product

**Type of aerosol** : Spray

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

dimethyl ether

##### **Result**

##### **Rat - Oral - LD50**

>99999 mg/kg

##### **Rat - Dermal - LD50**

>99999 mg/kg

##### **Rat - Inhalation - LC50 Vapor**

309 g/m<sup>3</sup> [4 hours]

##### **Rat - Inhalation - LC50 Gas.**

164000 ppm [4 hours]

Toxic effects: Behavioral - Ataxia Behavioral - Coma

cyclohexane

##### **Rat - Oral - LD50**

6240 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Changes in structure or function of salivary glands Gastrointestinal - Hypermotility, diarrhea

toluene

##### **Rat - Dermal - TDLo**

26.4 mg/kg

Toxic effects: Skin After systemic exposure - Dermatitis, irritative Metabolism (intermediary) - Effect on inflammation or mediation of inflammation

##### **Rat - Oral - LD50**

5001 mg/kg

##### **Rat - Dermal - LD50**

5001 mg/kg

##### **Rat - Inhalation - LC50 Vapor**

49 g/m<sup>3</sup> [4 hours]

acetone

##### **Rat - Oral - LD50**

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor

##### **Rabbit - Dermal - LD50**

2001 mg/kg

##### **Rat - Inhalation - LC50 Vapor**

21 mg/l [4 hours]

XYLENE

##### **Rat - Oral - LD50**

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

##### **Rat - Inhalation - LC50 Gas.**

5000 ppm [4 hours]

ethylbenzene

##### **Rat - Oral - LD50**

3500 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

##### **Rabbit - Dermal - LD50**

>5000 mg/kg

**Conclusion/Summary [Product]** : Not available.

#### Skin corrosion/irritation

## Section 11. Toxicological information

Product/ingredient name	Result
toluene	<b>Pig - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 250 uL
acetone	<b>Rabbit - Skin - Mild irritant</b> <u>Amount/concentration applied:</u> 435 mg <b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
XYLENE	<b>Rabbit - Skin - Mild irritant</b> <u>Amount/concentration applied:</u> 395 mg <b>Rat - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 8 hours <u>Amount/concentration applied:</u> 60 uL
ethylbenzene	<b>Rabbit - Skin - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg <b>Rabbit - Skin - Moderate irritant</b> <u>Amount/concentration applied:</u> 100 % <b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 15 mg

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

Product/ingredient name	Result
cyclohexane	<b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 0.1 MI
toluene	<b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 0.1 MI
acetone	<b>Human - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 186300 ppm <b>Rabbit - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 10 uL
XYLENE	<b>Rabbit - Eyes - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg <b>Rabbit - Eyes - Severe irritant</b> <u>Amount/concentration applied:</u> 20 mg <b>Rabbit - Eyes - Mild irritant</b> <u>Amount/concentration applied:</u> 87 mg <b>Rabbit - Eyes - Severe irritant</b> <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 5 mg

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### **Classification**

Product/ingredient name	IARC	NTP	ACGIH
toluene	3	-	A4
acetone	-	-	A4
XYLENE	3	-	A4
ethylbenzene	2B	-	A3

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

cyclohexane

toluene

acetone

XYLENE

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

#### **Result**

## Section 11. Toxicological information

toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### Aspiration hazard

Product/ingredient name	Result
cyclohexane	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1
XYLENE	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

<b>Eye contact</b>	: Causes serious eye irritation.
<b>Inhalation</b>	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: Causes skin irritation.
<b>Ingestion</b>	: Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GRIP 4 ADHESION PROM MIR 1.7 (OALGRIP17)	211561.5	14608.7	246001.7	N/A	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
cyclohexane	6240	N/A	N/A	N/A	N/A
toluene	5001	5001	N/A	49	N/A
acetone	5800	2001	N/A	21	N/A
XYLENE	4300	1100	5000	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

cyclohexane

#### Result

##### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 30 days; Size: 20.5 mm; Weight: 0.119 g

4530 µg/l [96 hours]

Effect: Mortality

toluene

##### Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

## Section 12. Ecological information

5500 µg/l [96 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)

6000 µg/l [48 hours]

Effect: Intoxication

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

1 mg/l [21 days]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

12.5 mg/l [72 hours]

Effect: Growth

acetone

### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

10 mg/l [48 hours]

Effect: Mortality

### Chronic - NOEC - Marine water

Algae - Green algae - *Ulva pertusa*

4.95 mg/l [96 hours]

Effect: Reproduction

### Acute - EC50 - Marine water

Algae - Green algae - *Ulva pertusa*

20.565 mg/l [96 hours]

Effect: Reproduction

### Chronic - NOEC - Fresh water

Crustaceans - Daphnia - *Daphniidae*

0.016 ml/l [21 days]

Effect: Population

### Acute - LC50 - Fresh water

Fish - Guppy - *Poecilia reticulata*

Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g

5600 ppm [96 hours]

Effect: Mortality

XYLENE

### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 18.4 mm; Weight: 0.077 g

13.4 mg/l [96 hours]

Effect: Mortality

### EC50

Crustaceans - *Penaeus monodon*

3.82 mg/l [48 hours]

ethylbenzene

### Acute - LC50 - Marine water

Crustaceans - Brine shrimp - *Artemia sp.* - Nauplii

Age: 2 to 3

13.3 mg/l [48 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

3600 µg/l [96 hours]

Effect: Population

## Section 12. Ecological information

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

Product/ingredient name	Result
XYLENE	OECD 301 F 90% [28 days]

**Conclusion/Summary [Product]** : Not available.

Ingredient name	Conclusion/Summary
toluene	ECHA: toluene is readily biodegraded by both non-adapted and adapted sewage sludge inocula. Three of these studies were also used as part of a weight of evidence that toluene is readily biodegradable in the EU RAR for toluene (2003).

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily
XYLENE	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
dimethyl ether	0.07	-	Low
cyclohexane	3.44	167	Low
toluene	2.73	90	Low
acetone	-0.23	-	Low
XYLENE	3.12	8.1 to 25.9	Low
ethylbenzene	3.6	-	Low

### Mobility in soil

**Soil/Water partition coefficient** : Not available.






### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

	TDG Classification	DOT Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1 	2.1 	2.1  	2.1 
Packing group	-	-	-	-
Environmental hazards	No.	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
- DOT Classification** : **Reportable quantity** 4000 lbs / 1816 kg [637.1 gal / 2411.7 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## Section 15. Regulatory information

### Canadian lists

- Canadian NPRI** : The following components are listed: dimethylether; cyclohexane; toluene; xylene (all isomers)
- CEPA Toxic substances** : None of the components are listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 15. Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Canada** : At least one component is not listed in DSL but all such components are listed in NDSL.
- United States** : All components are listed or exempted.

## Section 16. Other information

### History

**Date of issue** : 2/19/2026

**Version** : 1.02

Product stewardship and regulatory compliance.

### Key to abbreviations

- : ATE = Acute Toxicity Estimate  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations  
HPR = Hazardous Products Regulations

📌 Indicates information that has changed from previously issued version.

### Notice to reader

This product is intended for industrial use only.

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